

ABSTRACT

Methods to zoom a region of interest from a digital image have been achieved. The methods invented support according to the scale of zooming the decrease or the increase of the resolution of digital images. The region of interest to be zoomed is variable; the destination image has a fixed size. In case of a decrease of the resolution of the region of interest the method invented combines interpolating source pixels to calculate the color values of the destination pixels and omitting some rows of source pixels. In case of enlargement the method invented combines interpolation of the source pixels to calculate the color values of the destination pixels, extrapolation of the destination pixels being close to the edge of the image, and replication of some of the interpolated rows of the destination image to gain additional rows according to the scale of the increase of resolution (enlargement) of a digital image.